

Translation

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PATENT COOPERATION TREATY

PCT/EP2003/007468



PCT 10/521980

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 010889WO	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/EP2003/007468	International filing date (day/month/year) 10 July 2003 (10.07.2003)	Priority date (day/month/year) 20 July 2002 (20.07.2002)
International Patent Classification (IPC) or national classification and IPC B21B 37/18		
Applicant ALUMINIUM NORF GMBH		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 4 sheets, including this cover sheet.
- ☒ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 3 sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 17 February 2004 (17.02.2004)	Date of completion of this report 14 October 2004 (14.10.2004)
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP2003/007468

I. Basis of the report

1. With regard to the elements of the international application:*

☐ the international application as originally filed☒ the description:

pages 1-16, as originally filed

pages, filed with the demand

pages, filed with the letter of

☒ the claims:

pages, as originally filed

pages, as amended (together with any statement under Article 19

pages, filed with the demand

pages 1-11, filed with the letter of 02 September 2004 (02.09.2004)

☒ the drawings:

pages 1/3-3/3, as originally filed

pages, filed with the demand

pages, filed with the letter of

☐ the sequence listing part of the description:

pages, as originally filed

pages, filed with the demand

pages, filed with the letter of

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language which is:

☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).☐ the language of publication of the international application (under Rule 48.3(b)).☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.☐ filed together with the international application in computer readable form.☐ furnished subsequently to this Authority in written form.☐ furnished subsequently to this Authority in computer readable form.☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.4. ☐ The amendments have resulted in the cancellation of:☐ the description, pages☐ the claims, Nos.☐ the drawings, sheets/fig5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-11	YES
	Claims		NO
Inventive step (IS)	Claims	1-11	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-11	YES
	Claims		NO

2. Citations and explanations

1. The application relates to a method and device for correcting the thickness of a rolled metal band according to the preamble of independent claims 1 and 8, respectively, as known from document US-A-3 540 247 (D1).

Thickness control is generally ensured by on-line contactless thickness measurement and by a roll gap control dependent on said measurement.

D1, however, provides as an alternative the on-line measurement (1) of a band length and (2) of the associated rotation of the take-up drum. The average gap between the layers is deduced therefrom (present application, page 11, paragraph 2, and figure 2), and hence also the average thickness of the band length in question.

Direct thickness measurement is thus dispensed with, which is largely independent from influencing variables (such as ambient temperature, band composition, etc.).

The problem addressed can be considered to be that

of improving thickness control, in particular in order to influence as quickly as possible the control elements in the roll stand.

The solution consists in carrying out an additional radiometric thickness measurement and in correcting it by the above-mentioned average thickness.

Although XP 000621624 (D2) describes an on-line, radiometric determination of the band thickness, the prior art does not suggest combining the two methods as per D1 and D2, which are considered to be independent methods.

2. Claims 2-7 are dependent on claim 1 and claims 9-11 are dependent on claim 8, and therefore likewise meet the requirements of PCT Article 33.